

Water-Data Report 2006

01409815 WEST BRANCH WADING RIVER AT MAXWELL, NJ

MULLICA RIVER BASIN

LOCATION.--Lat 39°40'30", long 74°32'27" referenced to North American Datum of 1983, Washington Township, Burlington County, NJ, Hydrologic Unit 02040301, at bridge on County Highway 563 in Maxwell, 1.6 mi southeast of Washington, 1.8 mi southwest of Jenkins, and 2.2 mi upstream from confluence with Oswego River.

DRAINAGE AREA.--85.9 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Miscellaneous measurements, water years 1985-90, 1998 to current year.

GAGE.--Staff gage.

**DISCHARGE MEASUREMENTS
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**

Date	Discharge, in ft ³ /s
Nov 30, 2005	202
Feb 22, 2006	152
May 31, 2006	53.1
Aug 17, 2006	35.8

01409815 WEST BRANCH WADING RIVER AT MAXWELL, NJ—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1976-93, 1998 to current year.

REMARKS.--Total nitrogen (00600) equals the sum of filtered ammonia plus organic nitrogen (00623), filtered nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570). Bacteria samples were collected synoptically over a 30-day period during the summer.

COOPERATIVE NETWORK SITE DESCRIPTOR: Undeveloped Land Use Indicator, New Jersey Department of Environmental Protection (NJDEP)
Watershed Management Area 14.

COOPERATION.--Samples were collected in cooperation with the NJDEP. Bacteria samples were provided by the local county health department under the direction of the NJDEP through the County Environmental Health Act. Determinations of filtered ammonia, filtered orthophosphorus, BOD, total suspended residue, fecal coliform, E. coli, and enterococcus bacteria were performed by the NJ Department of Health and Senior Services.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 1 of 3

[Remark codes: <, less than; E, estimated.]

Date	Time	Instantaneous discharge, cfs (00061)	Turbidity white light, det ang 90+/-30 corrctd NTRU (63676)	UV absorbance, 254 nm, wat flt units /cm (50624)	UV absorbance, 280 nm, wat flt units /cm (61726)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)
Nov 30...	1030	202	2.3	.322	.248	759	9.3	87	4.0	54	13.0	12.0	3
Feb 22...	0940	152	2.2	.251	.191	766	11.6	85	4.2	45	4.0	3.0	4
May 31...	0930	53	7.8	.361	.289	766	7.9	86	3.9	36	24.5	19.5	3
Aug 17...	1220	36	6.3	.170	.138	769	8.2	91	4.2	34	29.5	20.5	3

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 2 of 3

[Remark codes: <, less than; E, estimated.]

Date	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf fixed end pt, lab, mg/L as CaCO3 (90410)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate, water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue total at 105 deg. C, suspended, mg/L (00530)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia water, fltrd, mg/L as N (00608)
Nov 30...	.61	.448	.58	2.68	--	4.63	<.10	4.7	8.51	26	2	.21	.026
Feb 22...	.74	.431	.64	2.55	--	4.37	<.10	4.3	5.53	26	2	.16	.048
May 31...	.60	.387	.85	2.33	<5	4.24	<.10	4.7	4.83	31	4	.19	.034
Aug 17...	.62	.369	.83	2.26	<5	4.02	<.10	6.1	4.43	23	3	.10	.026

01409815 WEST BRANCH WADING RIVER AT MAXWELL, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 3 of 3

[Remark codes: <, less than; E, estimated.]

Date	Nitrite + nitrate water flt'd, mg/L as N (00631)	Particulate nitrogen, susp, water, mg/L (49570)	Orthophosphate, water, flt'd, mg/L as P (00671)	Phosphorus, water, flt'd, mg/L (00666)	Phosphorus, water, unflt'd, mg/L (00665)	Total carbon, suspnd sedimnt total, mg/L (00694)	Inorganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, flt'd, mg/L (00681)	BOD, water, unflt'd 5 day, 20 degC mg/L (00310)	Boron, water, flt'd, ug/L (01020)
Nov 30...	<.06	.03	E.005	.005	.020	.9	<.1	.9	7.0	<1.0	8.5
Feb 22...	<.06	.02	E.007	.010	.018	.4	<.1	.4	5.4	<1.0	7.3
May 31...	<.06	.17	E.005	<.004	.092	3.7	<.1	3.7	4.8	<1.0	7.4
Aug 17...	<.06	.09	E.009	<.004	.052	1.8	<.1	1.8	2.6	<1.0	7.4

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

[Remark codes: <, less than.]

Date	Time	Temperature, water, deg C (00010)	Enterococci, m-E MF, water, col/ 100 mL (31649)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli-form, ECbroth MPN/ 100 mL (31615)
May					
03...	1105	13.3	<10	<10	<20
10...	1055	14.4	<10	<10	<20
17...	1140	15.6	10	50	<20
24...	1120	14.4	10	<10	<20
31...	1020	20.2	30	50	80